

## Claims:

- Process for enhancing the filling capacity of 1. such as cut tobacco leaf or tobacco tobacco, 5 midribs, or tobacco additional material, treating the tobacco material having an initial moisture of 10-30% with a treatment gas consisting of nitrogen and/or argon at pressures of 400 to 1,000 bar followed by a continuous decompression 10 and subsequent thermal post-treatment discharged tobacco material, characterized in that the filling density of the tobacco charge in the autoclave is greater than 0.2 kg/dm<sup>3</sup>.
- 15 2. Process according to Claim 1, characterized in that the pressure time, that is to say the time between the start of pressure buildup and decompression, is at least 300 sec.
- 20 3. Process according to Claims 1 and 2, characterized in that the tobacco is mechanically compressed before, during or after the pressure vessel is filled.
- 25 4. Process according to Claim 3, characterized in that the tobacco is heated before or during compression.
- 5. Process according to Claims 1-4, characterized in that the pressure time of at least 300 sec is reached after rapid pressure buildup by allowing the vessel to stand under pressure.
- 6. Process according to Claim 5, characterized in that after the vessel is allowed to stand, before the decompression, renewed pressurisation is performed.